

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/8/7,530A  
Source: 1Fwp  
Date Processed by STIC: 11/8/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/08/2004

PATENT APPLICATION: US/10/817,530A

TIME: 16:24:16

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw

```

3 <110> APPLICANT: Braun, Werner
4      Mathura, Venkatarajan S.
5      Schein, Catherine H.
7 <120> TITLE OF INVENTION: PHYSICAL-CHEMICAL PROPERTY BASED SEQUENCE MOTIFS AND METHODS
8      REGARDING SAME
10 <130> FILE REFERENCE: 265.00400101
12 <140> CURRENT APPLICATION NUMBER: 10/817,530A
13 <141> CURRENT FILING DATE: 2004-04-02
15 <150> PRIOR APPLICATION NUMBER: US 60/460,769
16 <151> PRIOR FILING DATE: 2003-04-04
18 <160> NUMBER OF SEQ ID NOS: 5
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 10
24 <212> TYPE: PRT
25 <213> ORGANISM: ARTIFICIAL SEQUENCE
27 <220> FEATURE:
28 <223> OTHER INFORMATION: MEMBER OF DNase-I SUPERFAMILY
30 <400> SEQUENCE: 1
32 Pro Asp Ile Leu Cys Leu Gln Glu Thr Lys
33 1          5          10
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 275
38 <212> TYPE: PRT
39 <213> ORGANISM: ARTIFICIAL SEQUENCE
41 <220> FEATURE:
42 <223> OTHER INFORMATION: MEMBER OF DNase-I SUPERFAMILY
44 <400> SEQUENCE: 2
46 Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr Ser Pro Ser Gly Lys Pro
47 1          5          10          15
50 Ala Thr Leu Lys Ile Cys Ser Trp Asn Val Asp Gly Leu Arg Ala Trp
51          20          25          30
54 Ile Lys Lys Lys Gly Leu Asp Trp Val Lys Glu Glu Ala Pro Asp Ile
55          35          40          45
58 Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu Asn Lys Leu Pro Ala Glu
59          50          55          60
62 Leu Gln Glu Leu Pro Gly Leu Ser His Gln Tyr Trp Ser Ala Pro Ser
63 65          70          75          80
66 Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu Leu Ser Arg Gln Cys Pro
67          85          90          95
70 Leu Lys Val Ser Tyr Gly Ile Gly Asp Glu Glu His Asp Gln Glu Gly
71          100         105         110
74 Arg Val Ile Val Ala Glu Phe Asp Ser Phe Val Leu Val Thr Ala Tyr

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/817,530A

DATE: 11/08/2004

TIME: 16:24:16

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw

```

75          115          120          125
78 Val Pro Asn Ala Gly Arg Gly Leu Val Arg Leu Glu Tyr Arg Gln Arg
79      130          135          140
82 Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys Gly Leu Ala Ser Arg Lys
83 145          150          155          160
86 Pro Leu Val Leu Cys Gly Asp Leu Asn Val Ala His Glu Glu Ile Asp
87          165          170          175
90 Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn Ala Gly Phe Thr Pro Gln
91          180          185          190
94 Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln Ala Val Pro Leu Ala Asp
95      195          200          205
98 Ser Phe Arg His Leu Tyr Pro Asn Thr Pro Tyr Ala Tyr Thr Phe Trp
99      210          215          220
102 Thr Tyr Met Met Asn Ala Arg Ser Lys Asn Val Gly Trp Arg Leu Asp
103 225          230          235          240
106 Tyr Phe Leu Leu Ser His Ser Leu Leu Pro Ala Leu Cys Asp Ser Lys
107          245          250          255
110 Ile Arg Ser Lys Ala Leu Gly Ser Asp His Cys Pro Ile Thr Leu Tyr
111          260          265          270
114 Leu Ala Leu
115      275
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 268
120 <212> TYPE: PRT
121 <213> ORGANISM: ARTIFICIAL SEQUENCE
123 <220> FEATURE:
124 <223> OTHER INFORMATION: MEMBER OF DNase-I SUPERFAMILY
126 <400> SEQUENCE: 3
128 Met Lys Phe Val Ser Phe Asn Ile Asn Gly Leu Arg Ala Arg Pro His
129 1      5      10      15
132 Gln Leu Glu Ala Ile Val Glu Lys His Gln Pro Asp Val Ile Gly Leu
133      20      25      30
136 Gln Glu Thr Lys Val His Asp Asp Met Phe Pro Leu Glu Glu Val Ala
137      35      40      45
140 Lys Leu Gly Tyr Asn Val Phe Tyr His Gly Gln Lys Gly His Tyr Gly
141      50      55      60
144 Val Ala Leu Leu Thr Lys Glu Thr Pro Ile Ala Val Arg Arg Gly Phe
145 65      70      75      80
148 Pro Gly Asp Asp Glu Glu Ala Gln Arg Arg Ile Ile Met Ala Glu Ile
149      85      90      95
152 Pro Ser Leu Leu Gly Asn Val Thr Val Ile Asn Gly Tyr Phe Pro Gln
153      100      105      110
156 Gly Glu Ser Arg Asp His Pro Ile Lys Phe Pro Ala Lys Ala Gln Phe
157      115      120      125
160 Tyr Gln Asn Leu Gln Asn Tyr Leu Glu Thr Glu Leu Lys Arg Asp Asn
161      130      135      140
164 Pro Val Leu Ile Met Gly Asp Met Asn Ile Ser Pro Thr Asp Leu Asp
165 145      150      155      160
168 Ile Gly Ile Gly Glu Glu Asn Arg Lys Arg Trp Leu Arg Thr Gly Lys

```

## RAW SEQUENCE LISTING

DATE: 11/08/2004

PATENT APPLICATION: US/10/817,530A

TIME: 16:24:16

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw

```

169              165              170              175
172 Cys Ser Phe Leu Pro Glu Glu Arg Glu Trp Met Asp Arg Leu Met Ser
173              180              185              190
176 Trp Gly Leu Val Asp Thr Phe Arg His Ala Asn Pro Gln Thr Ala Asp
177              195              200              205
180 Arg Phe Ser Trp Phe Asp Tyr Arg Ser Lys Gly Phe Asp Asp Asn Arg
181              210              215              220
184 Gly Leu Arg Ile Asp Leu Leu Leu Ala Ser Gln Pro Leu Ala Glu Cys
185 225              230              235              240
188 Cys Val Glu Thr Gly Ile Asp Tyr Glu Ile Arg Ser Met Glu Lys Pro
189              245              250              255
192 Ser Asp His Ala Pro Val Trp Ala Thr Phe Arg Arg
193              260              265
196 <210> SEQ ID NO: 4
197 <211> LENGTH: 258
198 <212> TYPE: PRT
199 <213> ORGANISM: ARTIFICIAL SEQUENCE
201 <220> FEATURE:
202 <223> OTHER INFORMATION: MEMBER OF DNase-I SUPERFAMILY
204 <400> SEQUENCE: 4
206 Leu Lys Ile Ala Ala Phe Asn Ile Arg Thr Phe Gly Glu Thr Lys Met
207 1              5              10              15
210 Ser Asn Ala Thr Leu Ala Ser Tyr Ile Val Arg Ile Val Arg Arg Tyr
211              20              25              30
214 Asp Ile Val Leu Ile Gln Glu Val Arg Asp Ser His Leu Val Ala Val
215              35              40              45
218 Gly Lys Leu Leu Asp Tyr Leu Asn Gln Asp Asp Pro Asn Thr Tyr His
219              50              55              60
222 Tyr Val Val Ser Glu Pro Leu Gly Arg Asn Ser Tyr Lys Glu Arg Tyr
223 65              70              75              80
226 Leu Phe Leu Phe Arg Pro Asn Lys Val Ser Val Leu Asp Thr Tyr Gln
227              85              90              95
230 Tyr Asp Asp Gly Cys Cys Gly Asn Asp Ser Phe Ser Arg Glu Pro Ala
231              100              105              110
234 Val Val Lys Phe Ser Ser His Ser Thr Lys Val Lys Glu Phe Ala Ile
235              115              120              125
238 Val Ala Leu His Ser Ala Pro Ser Asp Ala Val Ala Glu Ile Asn Ser
239              130              135              140
242 Leu Tyr Asp Val Tyr Leu Asp Val Gln Gln Lys Trp His Leu Asn Asp
243 145              150              155              160
246 Val Met Leu Met Gly Asp Phe Asn Ala Asp Cys Ser Tyr Val Thr Ser
247              165              170              175
250 Ser Gln Trp Ser Ser Ile Arg Leu Arg Thr Ser Ser Thr Phe Gln Trp
251              180              185              190
254 Leu Ile Pro Asp Ser Ala Asp Thr Thr Ala Thr Ser Thr Asn Cys Ala
255              195              200              205
258 Tyr Asp Arg Ile Val Val Ala Gly Ser Leu Leu Gln Ser Ser Val Val
259              210              215              220
262 Pro Gly Ser Ala Ala Pro Phe Asp Phe Gln Ala Ala Tyr Gly Leu Ser

```

## RAW SEQUENCE LISTING

DATE: 11/08/2004

PATENT APPLICATION: US/10/817,530A

TIME: 16:24:16

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw

```

263 225          230          235          240
266 Asn Glu Met Ala Leu Ala Ile Ser Asp His Tyr Pro Val Glu Val Thr
267          245          250          255
270 Leu Thr
274 <210> SEQ ID NO: 5
275 <211> LENGTH: 336
276 <212> TYPE: PRT
277 <213> ORGANISM: ARTIFICIAL SEQUENCE
279 <220> FEATURE:
280 <223> OTHER INFORMATION: MEMBER OF DNase-I SUPERFAMILY
282 <400> SEQUENCE: 5
284 Tyr Asp Pro Ile His Glu Tyr Val Asn His Glu Leu Arg Lys Arg Glu
285 1          5          10          15
288 Asn Glu Phe Ser Glu His Lys Asn Val Lys Ile Phe Val Ala Ser Tyr
289          20          25          30
292 Asn Leu Asn Gly Cys Ser Ala Thr Thr Lys Leu Glu Asn Trp Leu Phe
293          35          40          45
296 Pro Glu Asn Thr Pro Leu Ala Asp Ile Tyr Val Val Gly Phe Gln Glu
297          50          55          60
300 Ile Val Gln Leu Thr Ser Ala Asp Pro Ala Lys Arg Arg Glu Trp Glu
301 65          70          75          80
304 Ser Cys Val Lys Arg Leu Leu Asn Gly Lys Cys Thr Ser Gly Pro Gly
305          85          90          95
308 Tyr Val Gln Leu Arg Ser Gly Gln Leu Val Gly Thr Ala Leu Met Ile
309          100         105         110
312 Phe Cys Lys Glu Ser Cys Leu Pro Ser Ile Lys Asn Val Glu Gly Thr
313          115         120         125
316 Val Lys Lys Thr Gly Leu Gly Asn Lys Gly Ala Val Ala Ile Arg Phe
317          130         135         140
320 Asp Tyr Glu Asp Thr Gly Leu Cys Phe Ile Thr Ser His Leu Ala Ala
321 145         150         155         160
324 Gly Tyr Thr Asn Tyr Asp Glu Arg Asp His Asp Tyr Arg Thr Ile Ala
325         165         170         175
328 Ser Gly Leu Arg Phe Arg Arg Gly Arg Ser Ile Phe Asn His Asp Tyr
329         180         185         190
332 Val Val Trp Phe Gly Asp Phe Asn Tyr Arg Ile Ser Leu Thr Tyr Glu
333         195         200         205
336 Glu Val Val Pro Cys Ile Ala Gln Gly Lys Leu Ser Tyr Leu Phe Glu
337         210         215         220
340 Tyr Asp Gln Leu Asn Lys Gln Met Leu Thr Gly Lys Val Phe Pro Phe
341 225         230         235         240
344 Phe Ser Glu Leu Pro Ile Thr Phe Pro Pro Thr Tyr Lys Phe Asp Ile
345         245         250         255
348 Gly Thr Asp Ile Tyr Asp Thr Ser Asp Lys His Arg Val Pro Ala Trp
349         260         265         270
352 Thr Asp Arg Ile Leu Tyr Arg Gly Glu Leu Val Pro His Ser Tyr Gln
353         275         280         285
356 Ser Val Pro Leu Tyr Tyr Ser Asp His Arg Pro Ile Tyr Ala Thr Tyr
357         290         295         300

```

## RAW SEQUENCE LISTING

DATE: 11/08/2004

PATENT APPLICATION: US/10/817,530A

TIME: 16:24:16

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw

360	Glu	Ala	Asn	Ile	Val	Lys	Val	Asp	Arg	Glu	Lys	Lys	Lys	Ile	Leu	Phe
361	305				310						315					320
364	Glu	Glu	Leu	Tyr	Asn	Gln	Arg	Lys	Gln	Glu	Val	Arg	Asp	Ala	Ser	Gln
365					325						330					335

**VERIFICATION SUMMARY**

DATE: 11/08/2004

PATENT APPLICATION: US/10/817,530A

TIME: 16:24:17

Input Set : A:\Supp.Sequence List for.10817530.txt

Output Set: N:\CRF4\11082004\J817530A.raw